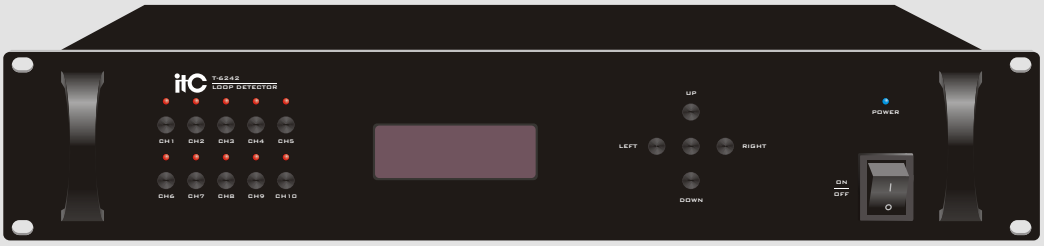
PUBLIC ADDRESS SYSTEM

OPERATION MANUAL

T-6242
LOOP DETECTOR



Please follow the instructions in this manual to obtain the optimum results from this unit.
We also recommend that you keep this manual handy for future reference.

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1. SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety

⚠ **WARNING**	Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.
⚠ **CAUTION**	Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

⚠ WARNING

When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest ITC dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
  - If you detect smoke or a strange smell coming from the unit.
  - If water or any metallic object gets into the unit
  - If the unit falls, or the unit case breaks
  - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
  - If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest ITC dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

⚠ CAUTION

When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your ITC dealer as to the cleaning. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

2. GENERAL DESCRIPTION

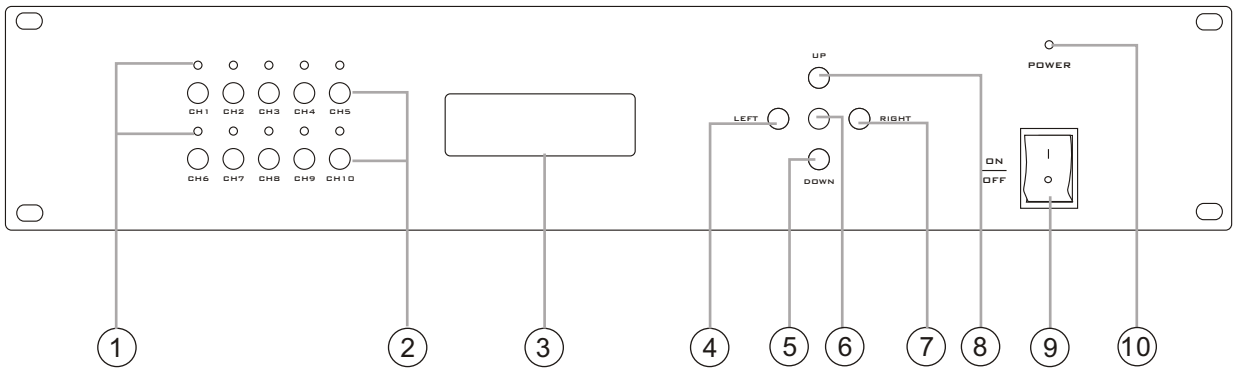
Dear users, thanks for selection our products, our products are precisely made under strict quality control. Therefore, we are confident to guarantee that our Loop DetectorT-6242 can completely be satisfactory.Before using T-6242, please carefully read the user manual for the sake of proper operation and keep this manual for future reference.

3. FEATURES

1.LED Display and Indicators.
2.10 Channel speaker line and amplifier check the impedance,short circuit,overloading and programmable checking.
3.10 inputs and 10 outputs.
4.No distortion to the normal background music.
5.Check 110V and 70V loop line, MAX load is 2000W.
6.230V and 24V DC power supply, memory function.

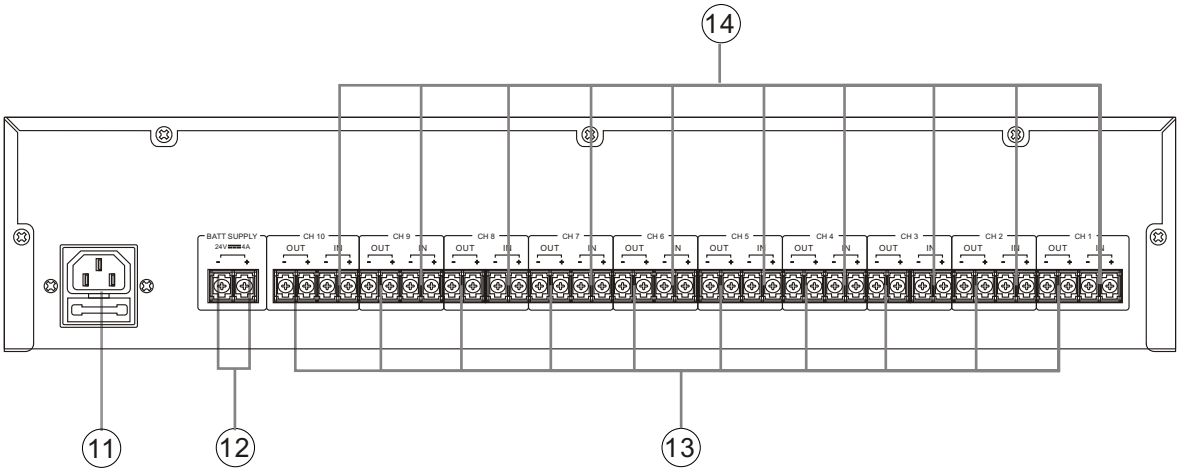
4. NOMENCLATURE AND FUNCTIONS

4.1 FRONT PANEL



1. **CH 1~CH 10**
   10 channel indicator
2. **CH 1~CH 10**
   10 channel button
3. **SCREEN**
   Display the working state of loop detector
4. **LEFT**
   Left search channel
5. **DOWN**
   Down search channel
6. **OK/DISH**
7. **RIGHT**
   Right search channel
8. **UP**
   Up search channel
9. **POWER SWITCH**
   On top of the opening Power
   Press the end, power shut down
10. **POWER**
    Power indicator

4.2 REAR PANEL



11. AC POWER INPUT
12. DC 24V INPUT
13. OUTPUT TO SPEAKER
    10 channel outputs
14. INPUT FROM AMP
    10 line inputs

5.OPERATION

5.1 SIX STATES OF SPEAKER

1. Normal: Speaker loading in the normal range, the amplifier wattage is bigger or equal 5W then the total speaker wattage.
2. Overloading: The total speaker wattage is bigger than the amplifier wattage.
3. Close Circuit: Speaker loading wattage is less than 5W.

5.2 INDICATORS

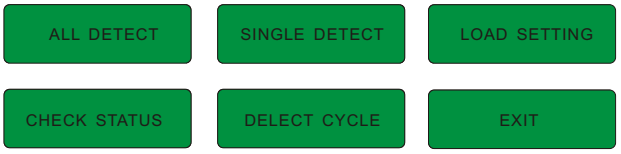
Green: Normal service between amplifier and speaker connection.

Red: Speaker Channel short circuit/ overloading or close circuit. The speaker will connect with amplifier when close circuit and over loading, the speaker will disconnect with amplifierExtinguish: Manual cut off, the indicator from green to extinguish.

Brown:There are two situations if manual operate when the channel is close circuit/overloading: the indicator will turn from red to brown if push the channel switch to disconnect the speaker and amplifier in close circuit of connected state, the indicator will turn from red to brown if push the channel switch to connect the speaker and amplifier in overloading of disconnected state.

5.3 OPERATION

1. Power on then the unit will circular check the channel 1- channel 10, after checking will return to the waiting service.
2. In waiting service, push the channel 1-channel 10 switch to connect or isconnect the speaker and amplifier. The unit will automatically connect the amplifier and speaker in case of speaker normal state or close circuit.The unit will automatically disconnect the amplifier and Speaker in case of speaker short circuit or overloading state.
3. Push Ok button to enter waiting service.
4. Dish with 5 parts of service.



5. User left, right, up and down to select the service, then push ok to enter different service set.

CAUTIONS :

When setting is automatic line checking, all the buttons will be locked, after the automatic checking, the button function restored.The automatic checking service display as following:

The checking time gap can be set in the check cycle.

5.4 SERVICE OPERATION

ALL DETECT

Function: All channel from 1 to 10 checking.

Operation: After selection all delect, the unit will check from channel 1 to channel 10, and display all the check result in the screen.

The left part of the screen is the checking channel, such as channel 1, the right part is the state.

SINGLE DETECT

Function: check the selected channel.

Operation: After selection single detect, and display as following.

Use up, down, left and right to select the channel, then push ok to check the channel.After checking, the channel state will be shown in the second line, first shown channel number then the channel state, and move ok to exist then push to exit.

LOAD SETTING

Function: Set the Max load.

Operation: Select the load set service and display as following.

Use up, down, left and right to select the channel and edit the loading set(Cautions: the loading mean the selected channel Max loading and the loading should be 10% bigger than the speaker total wattage and the default setting is 2000W. After selection the channel, you can see the last edited loading and push ok after edition or cancel to upper dish.

CHECK STATUS

Function: Check the last checking state of selected channel.

Operation: Select the check status service and display as following.

Use up, down, left and right to select the channel and the second line will show the channel number and the state, such as channel 250W, push exit to exit and push ok to the upper Dish.

CHECK CYCLE
Function: set the automatic check cycle.
Operation:Select the check cycle and display as following.

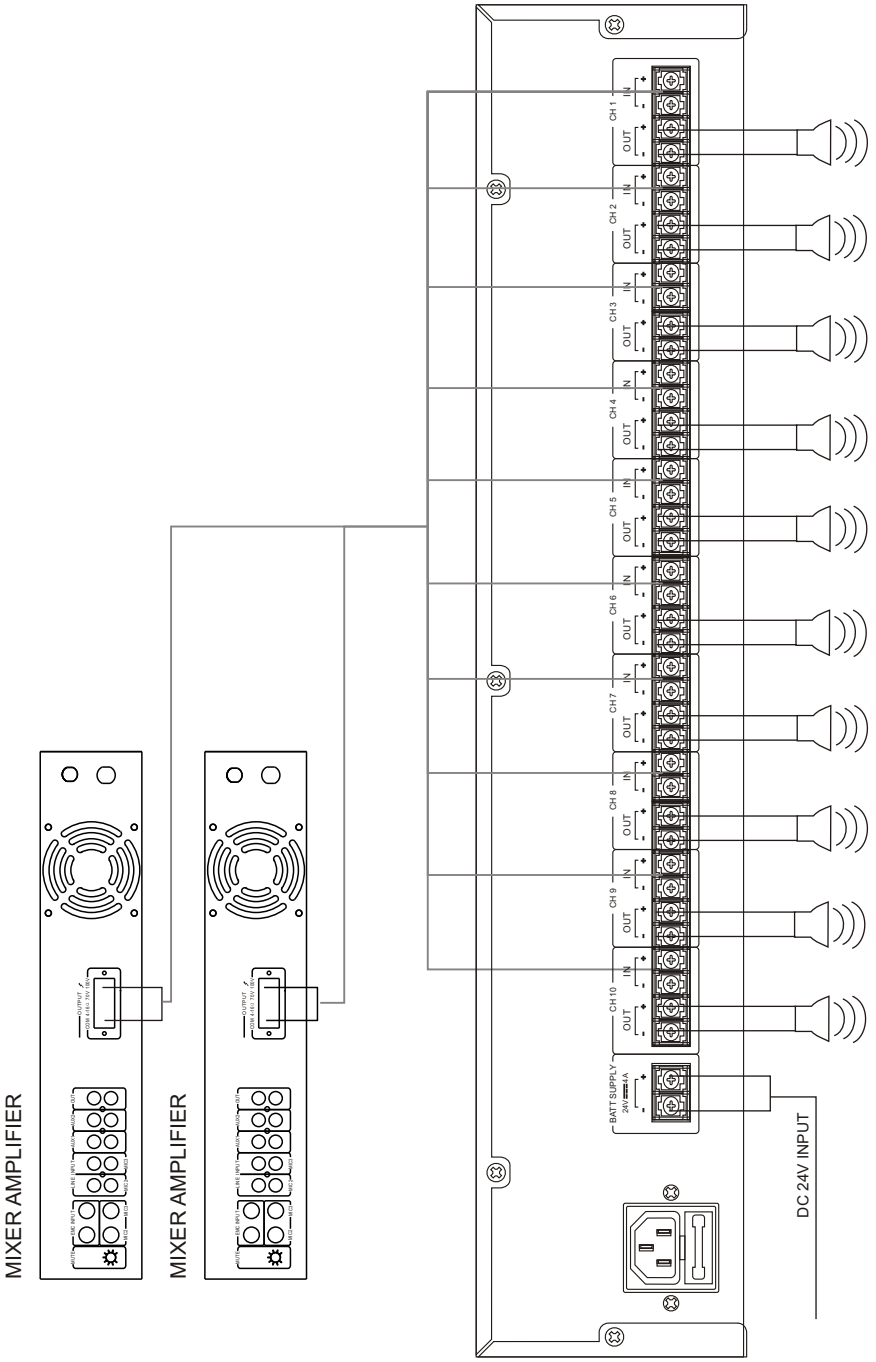
After the time gap, the content is the time of gap, use up and down to set the time or no check.
No check: no automatic check.
2 hours: Check every 2 hours
12 hours: Check every 12 hours
24 hours: Check every 24 hours

CAUTIONS:
In case of checking, if the channel is broadcast music, the loop detector will jump over such channel to avoid disturbance the music.

After selection the automatic check, push ok and move ok to cancel to cancel the operation and back to upper dish.

6. APPLICATIONS

REAR PANEL CONNECTIONS

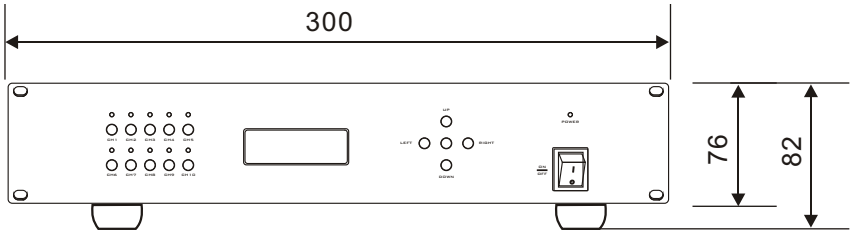


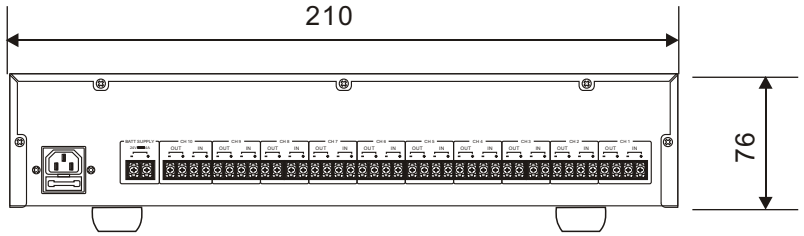
7.SPECIFICATIONS

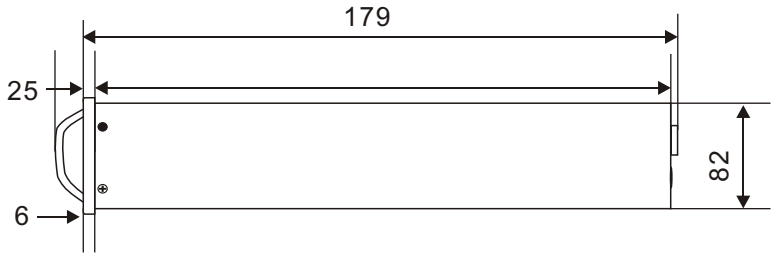
LOOP DETECTOR	
MODEL	T-6242
COMMUNICATION INTERFACE	RJ45
COMMUNICATION PROTOCOL	20MA CIRCULAR COMMUNICATION
COMMUNICATION SPEED	4800bps
POWER REQUIREMENTS	~220-240V 50/60Hz,24V DC
POWER CONSUMPTION	7W
PROTECTIO	AC FUSE×1A
DIMENSION(mm)	300X210X80
NET WEIGHT	5.5Kg
GROSS WEIGHT	7.2Kg

8. DIMENSIONAL DIAGRAM

UNIT :mm

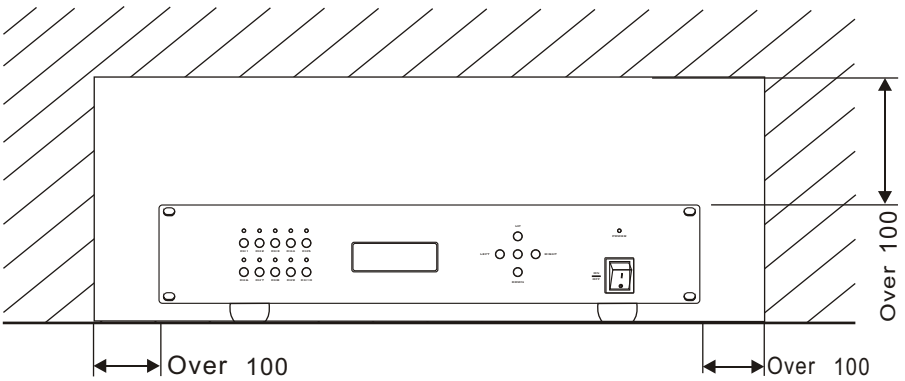






Keep the unit's all sides over 10 cm away from objects that may obstruct air flow to prevent the unit's internal temperature rise.

UNIT :mm



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